Figure 1

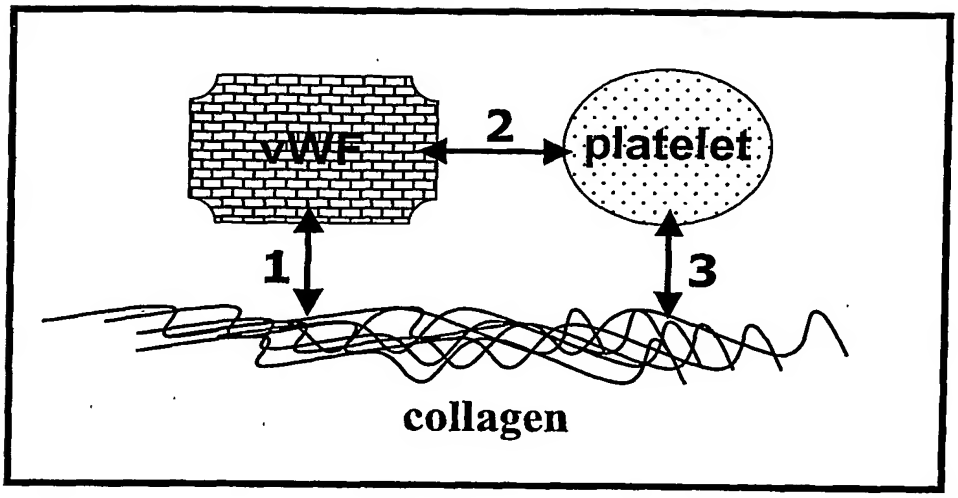


Figure 2

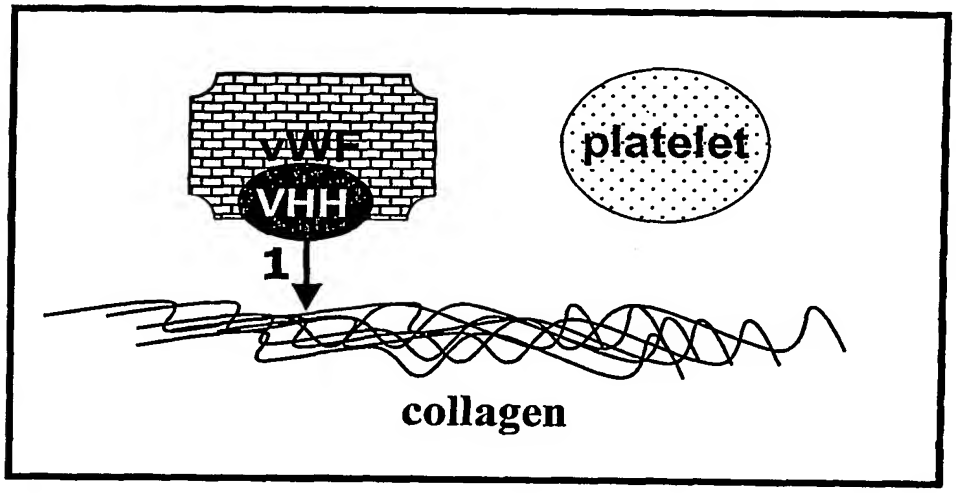


Figure 3

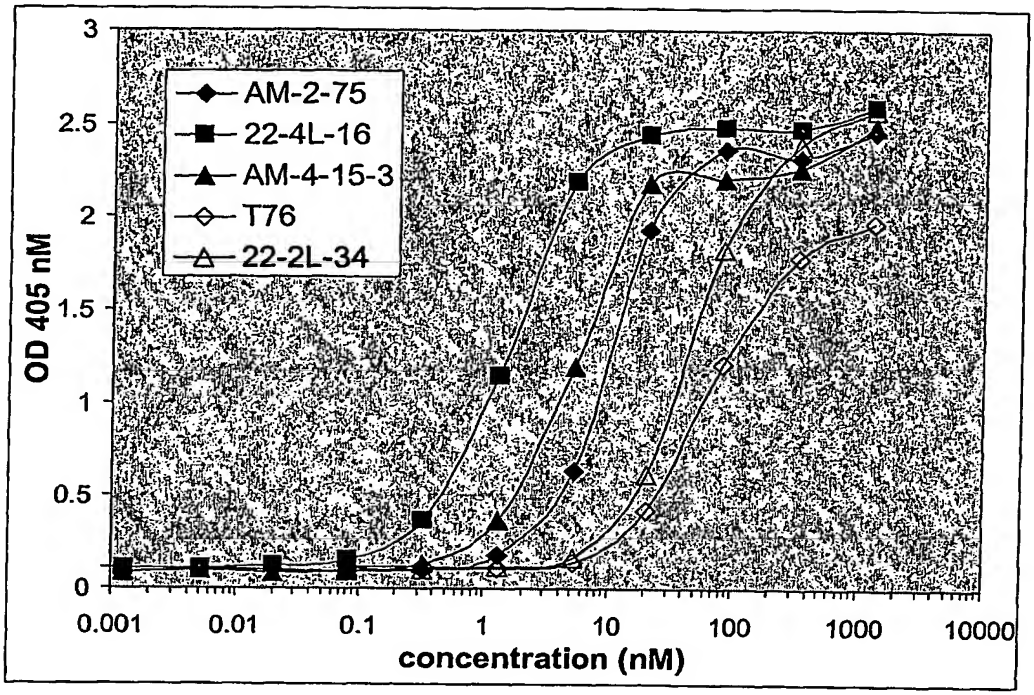

AM-2-75
22-4L-16
AM-4-15-3
T76
22-2L-34
OD 405 nM
3
2.5
2
1.5
1
0.5
0
0.001
0.01
0.1
1
10
100
1000
10000
concentration (nM)

Figure 4

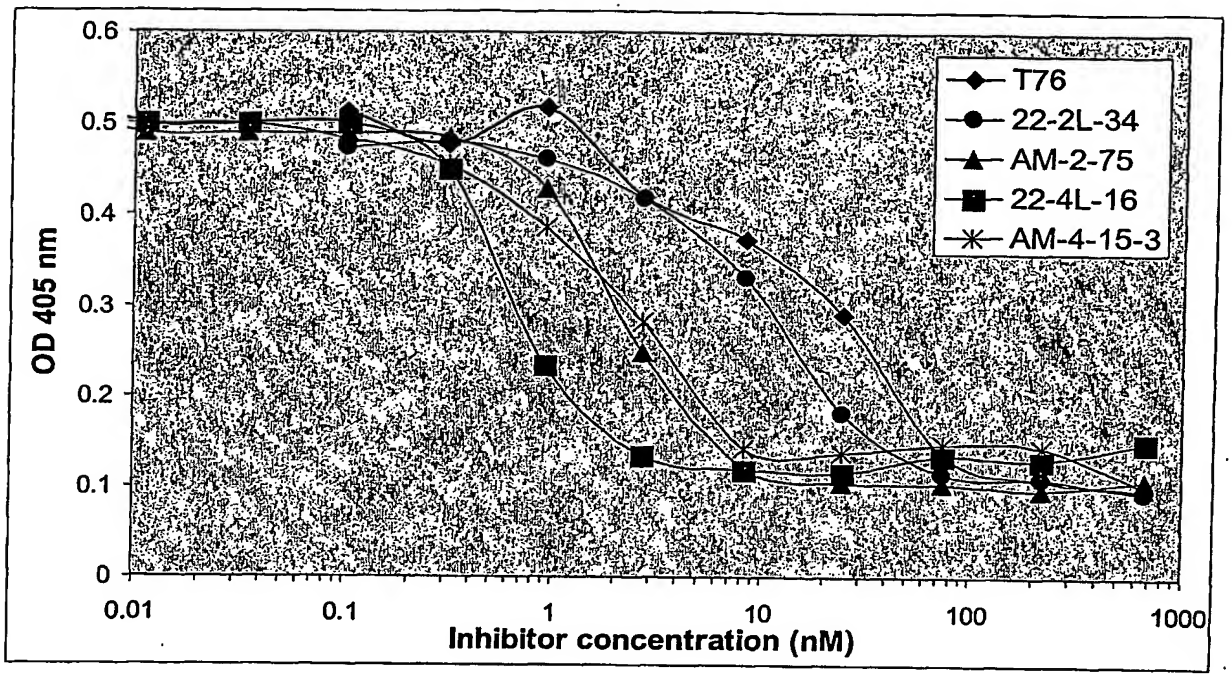


Figure 5

figure 6

```
HindIII
1    aagcttgcat gcaaattcta tttcaaggag acagtcataa tgaaatacct attgcctacg gcagccgctg gattgttatt
                                                   M  K  Y   L  L  P  T   A  A  A   G  L  L
                                                      <                          pelB-leader
                 SfiI       NcoI                NotI                PstI
81   actcgcggcc cagccggcca tggggcctaa taggcggccg cacaggtgca gctgcaggag tcataatgag ggacccaggt
      L  A  A   Q  P  A   M  G  P -  - A  A   A  Q  V   Q  L  Q  E   S  -  -   G  T  Q  V
              Leader               ><    VHH#1 >         <                             VHH#2
BstEII
161  caccgtctcc tcagaacaaa aactcatctc agaagaggat ctgaatgggg ccgcacatca tcatcatcat cattaatgag
      T  V  S   S  E  Q   K  L  I   S  E  E  D   L  N  G   A  A  H   H  H  H  H   H  -  -
                 ><       C-MYC                      >            <       His6           >
EcoRI
241  aattcactgg ccg
```

Figure 7

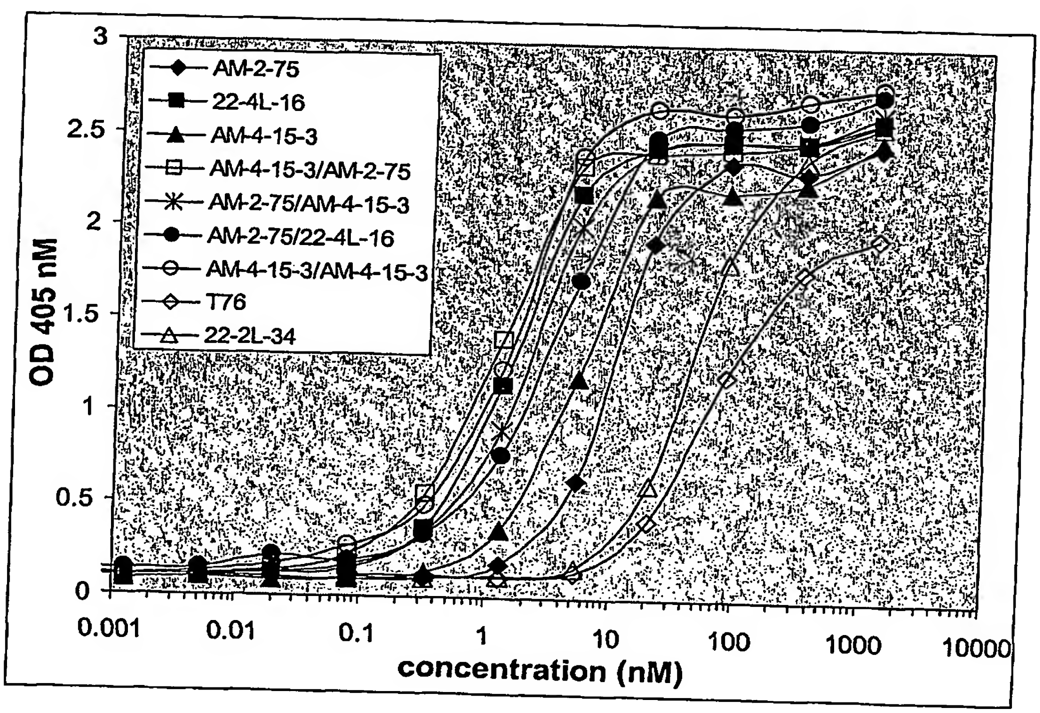


Figure 8

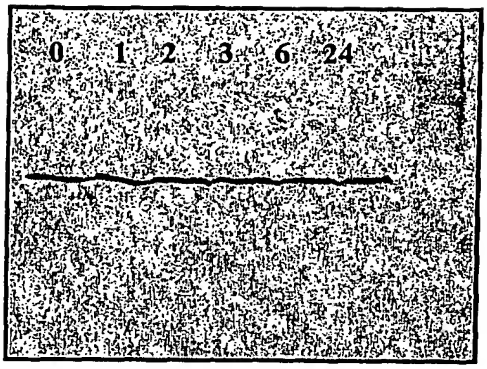


Figure 9

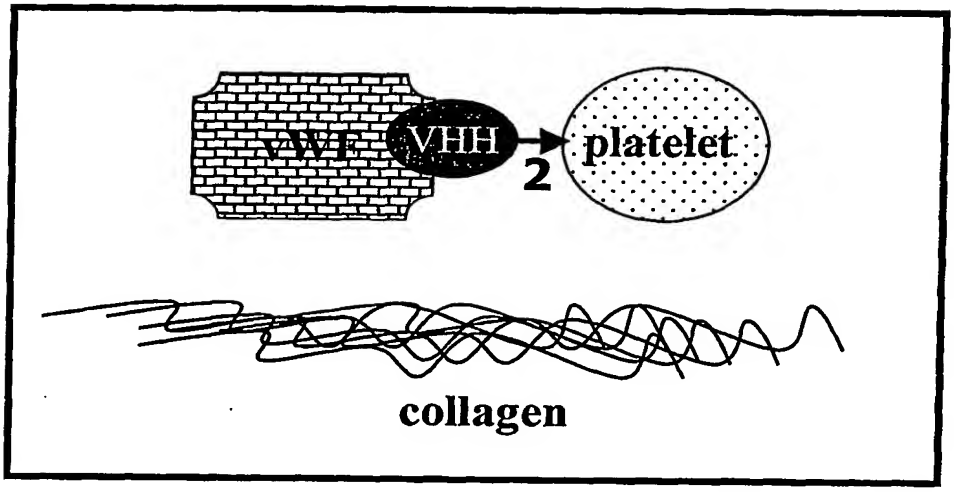


Figure 10

Figure 11

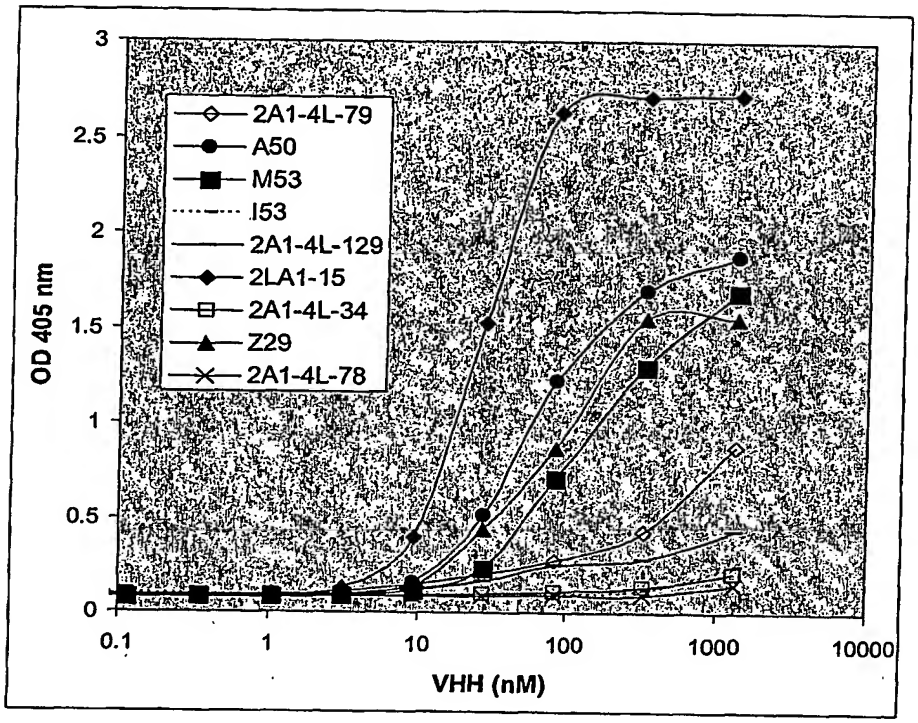

3
2.5
2
1.5
1
0.5
0
OD 405 nm
0.1
1
10
100
1000
10000
VHH (nM)
2A1-4L-79
A50
M53
I53
2A1-4L-129
2LA1-15
2A1-4L-34
Z29
2A1-4L-78

Figure 12

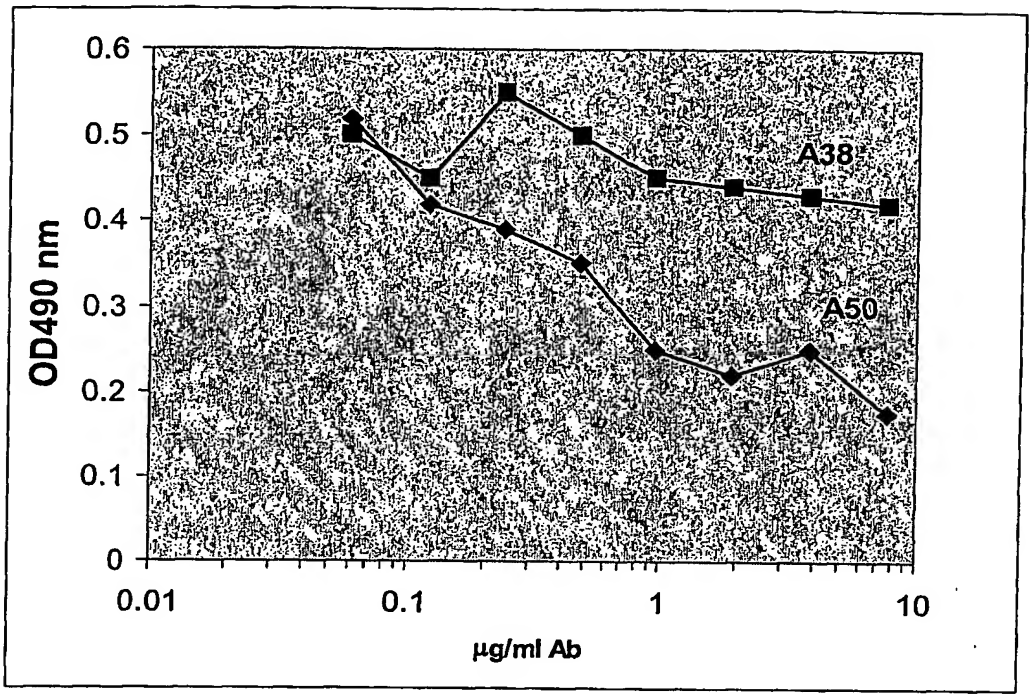


Figure 13

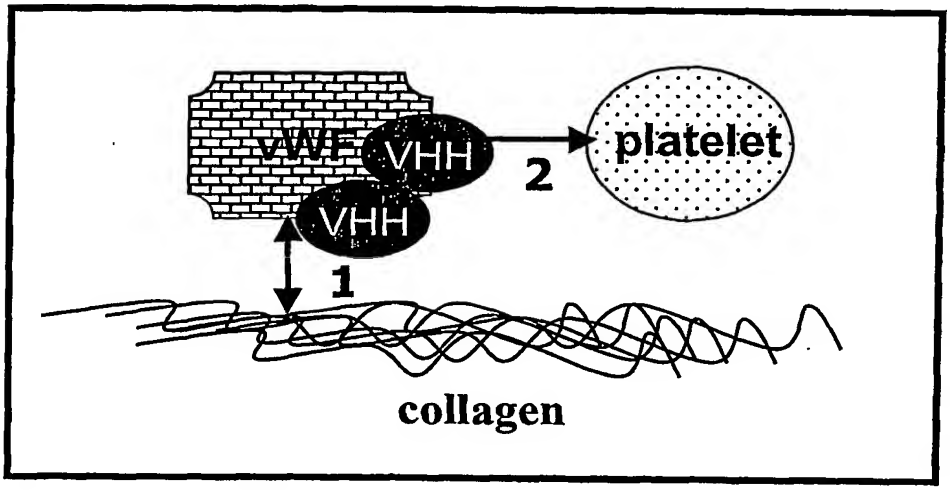


Figure 14

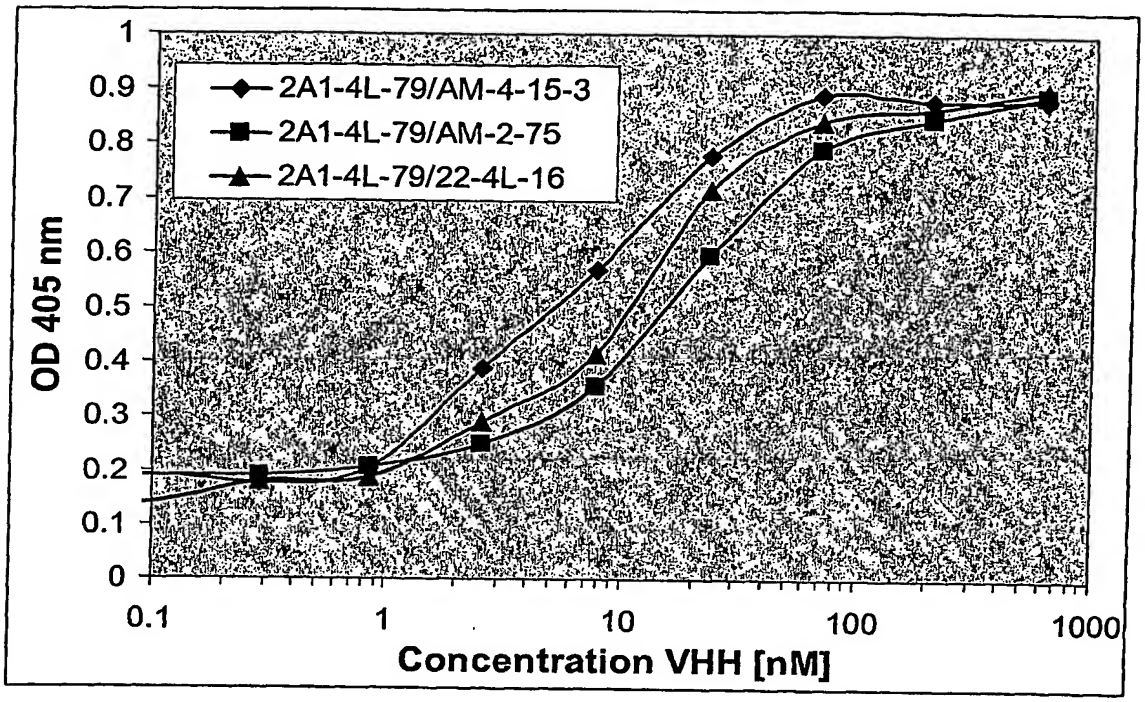


Figure 15

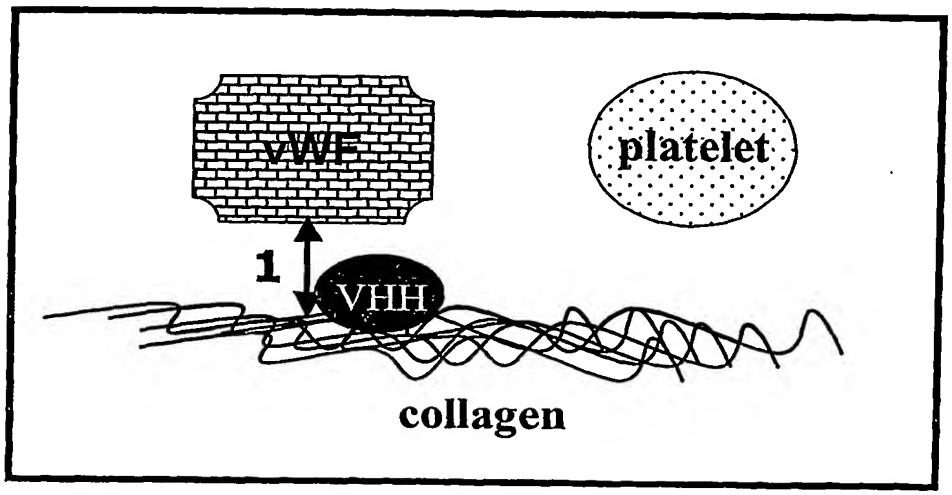


Figure 16

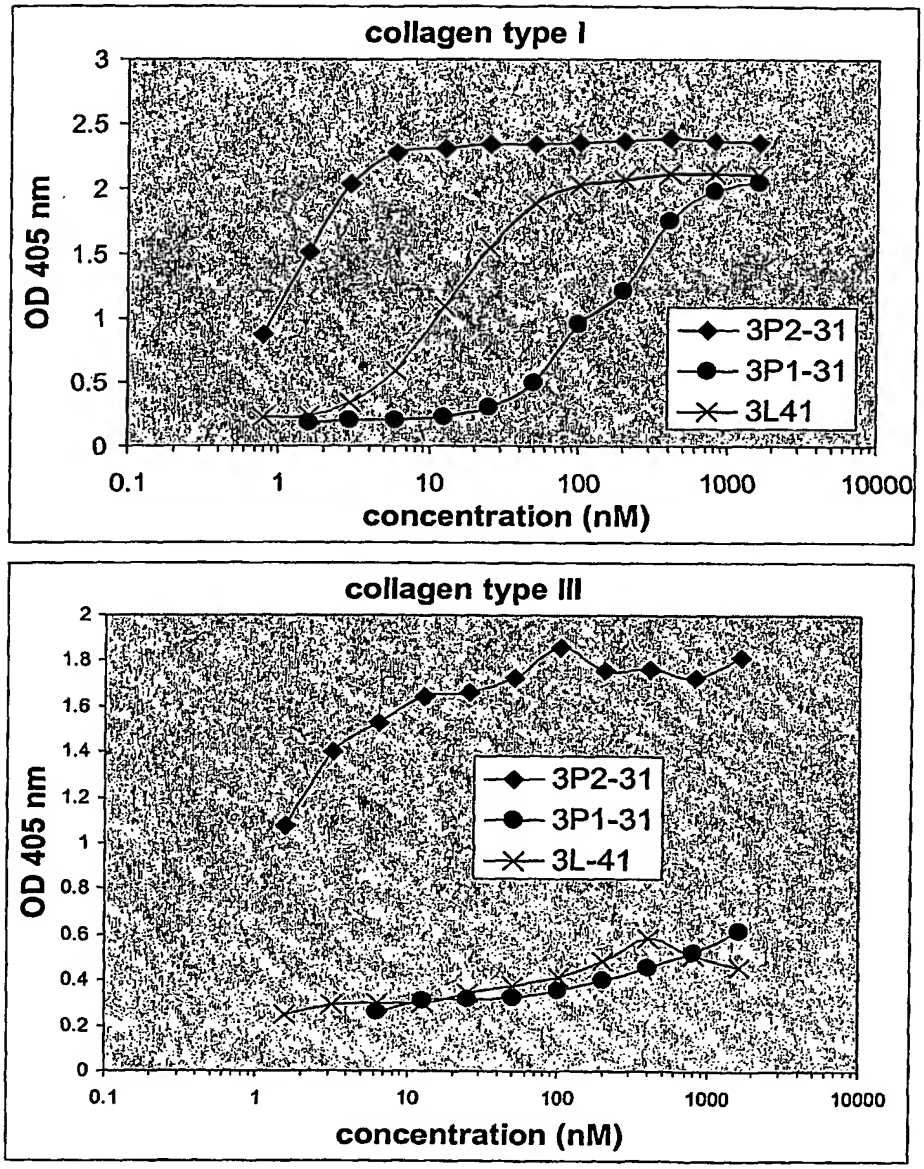

collagen type I
OD 405 nm
3
2.5
2
1.5
1
0.5
0
0.1
1
10
100
1000
10000
concentration (nM)
3P2-31
3P1-31
3L41
collagen type III
OD 405 nm
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.1
1
10
100
1000
10000
concentration (nM)
3P2-31
3P1-31
3L-41

Figure 17

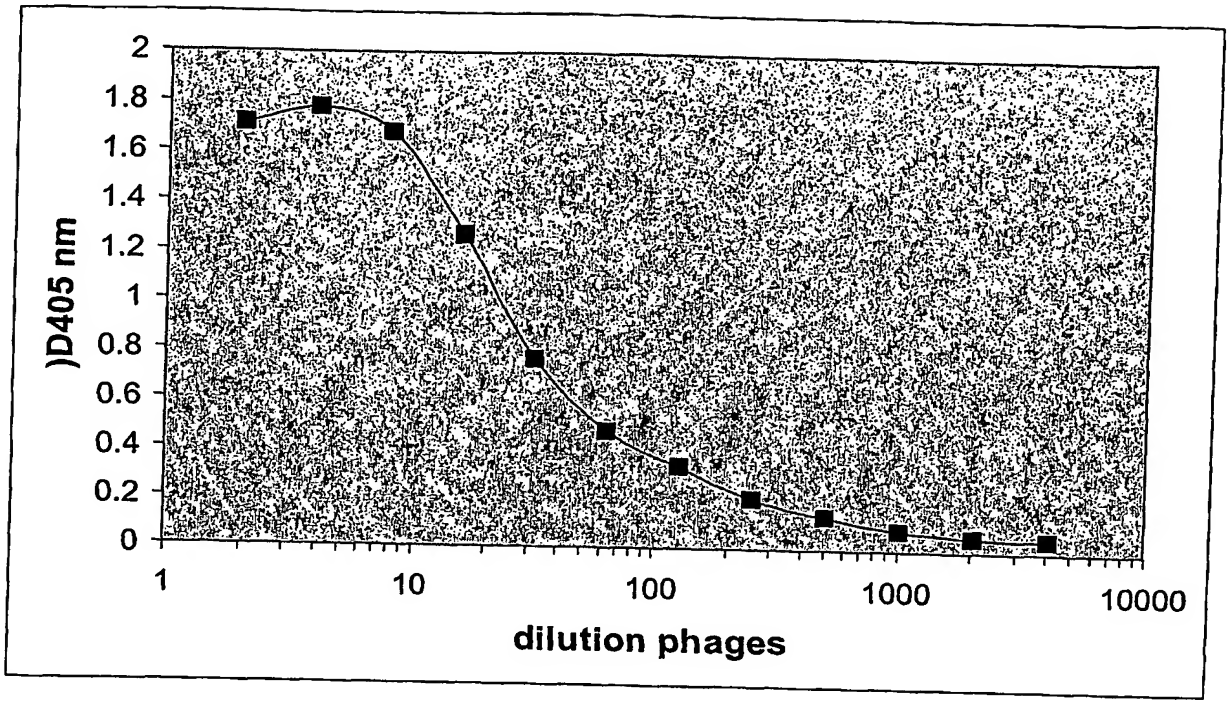


Figure 18

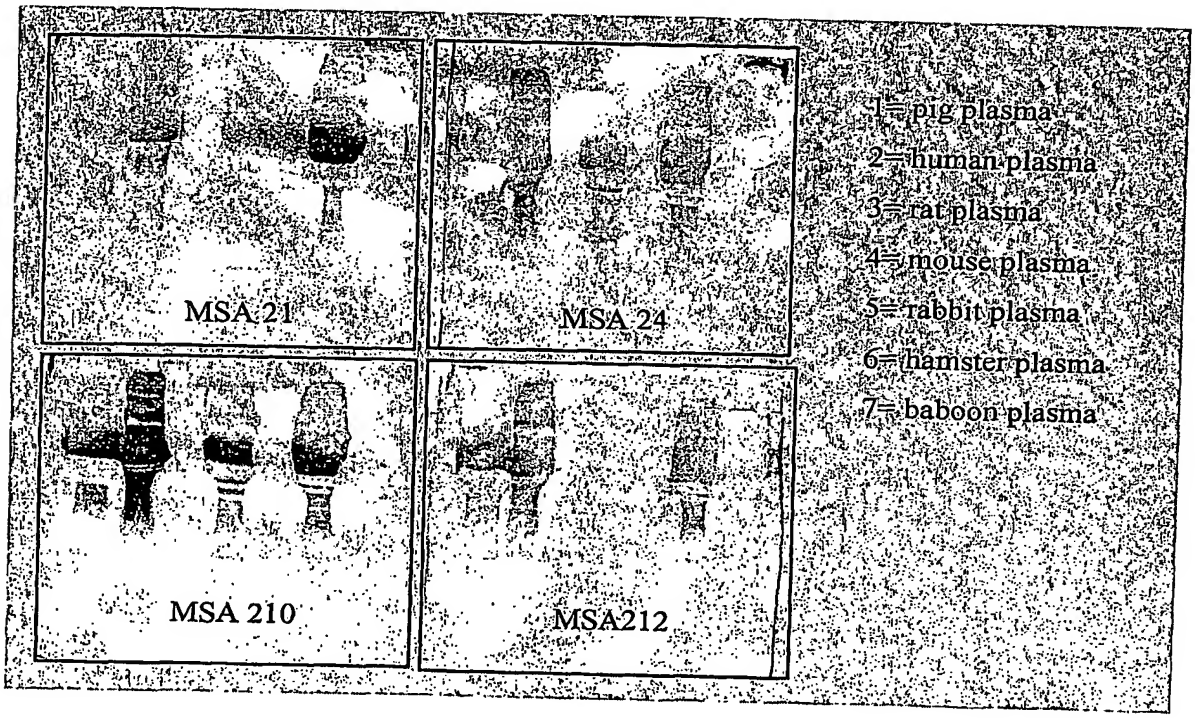


Figure 19

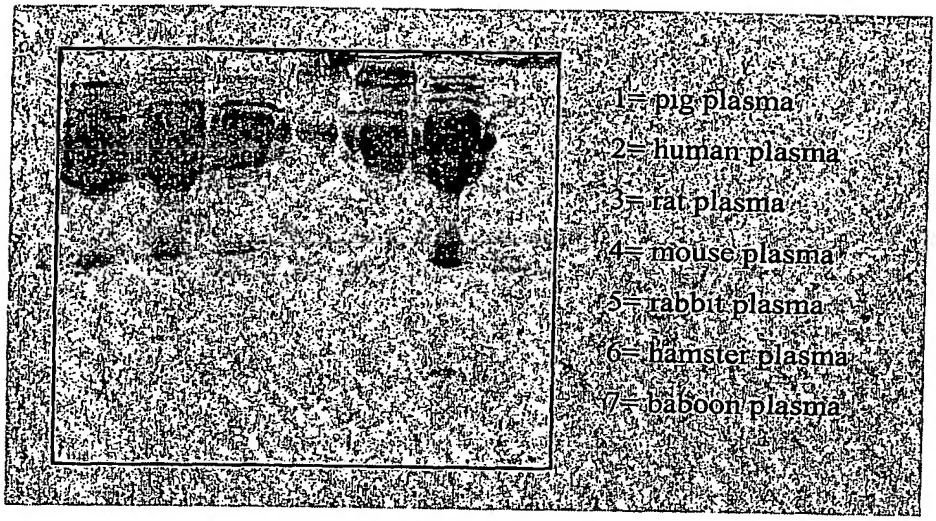


Figure 20

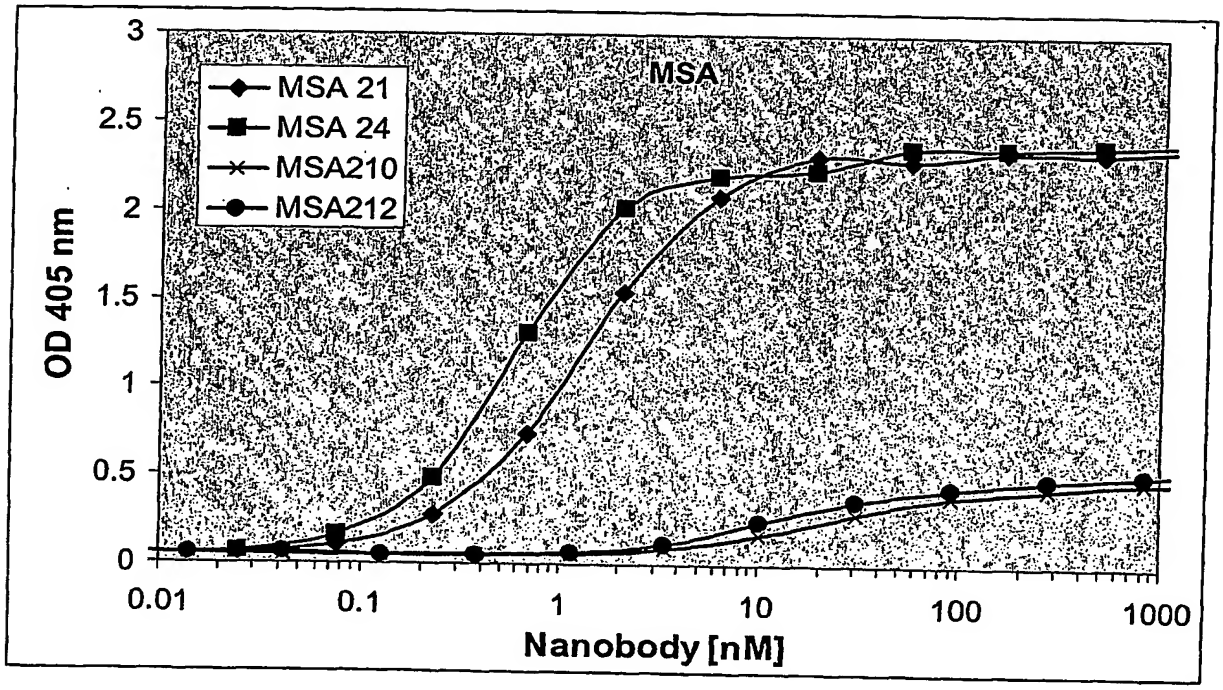


Figure 21

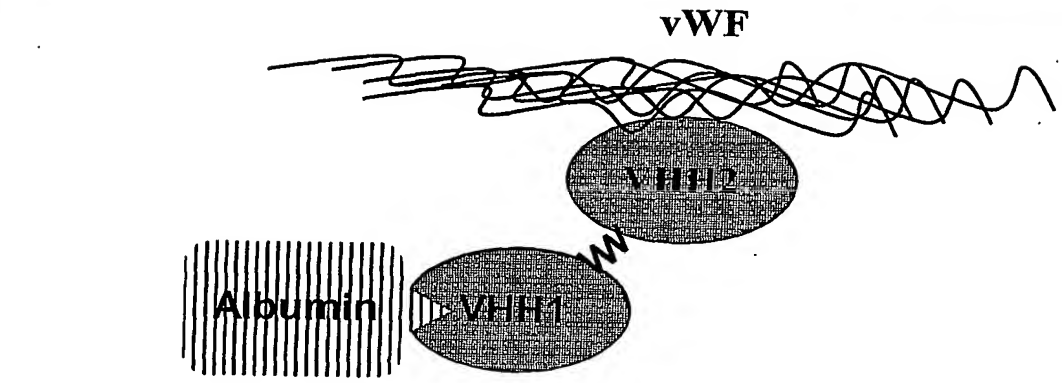
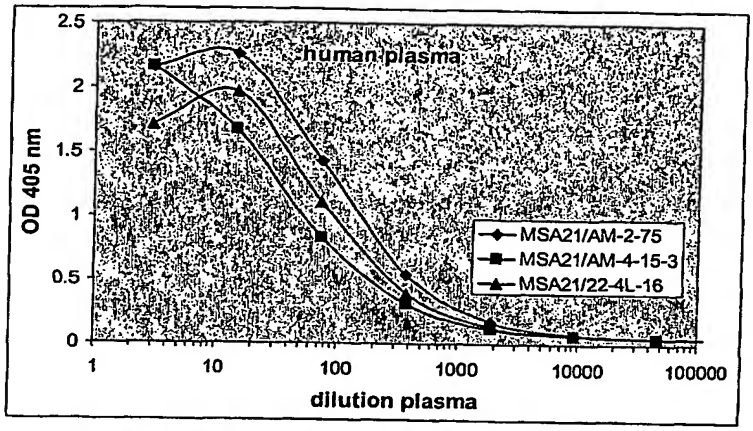
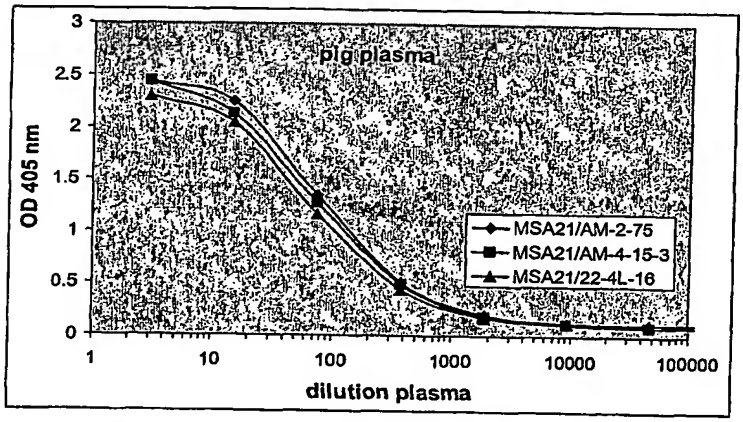


Figure 22


human plasma
OD 405 nm
2.5
2
1.5
1
0.5
0
1
10
100
1000
10000
100000
dilution plasma
MSA21/AM-2-75
MSA21/AM-4-15-3
MSA21/22-4L-16


pig plasma
OD 405 nm
3
2.5
2
1.5
1
0.5
0
1
10
100
1000
10000
100000
dilution plasma
MSA21/AM-2-75
MSA21/AM-4-15-3
MSA21/22-4L-16

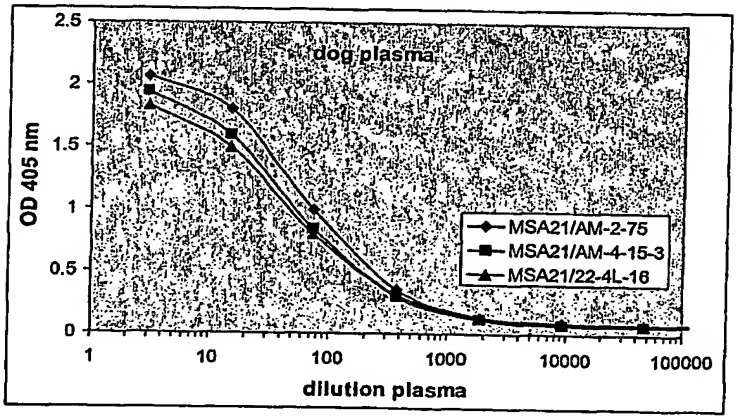

dog plasma
OD 405 nm
2.5
2
1.5
1
0.5
0
1
10
100
1000
10000
100000
dilution plasma
MSA21/AM-2-75
MSA21/AM-4-15-3
MSA21/22-4L-16

Figure 23

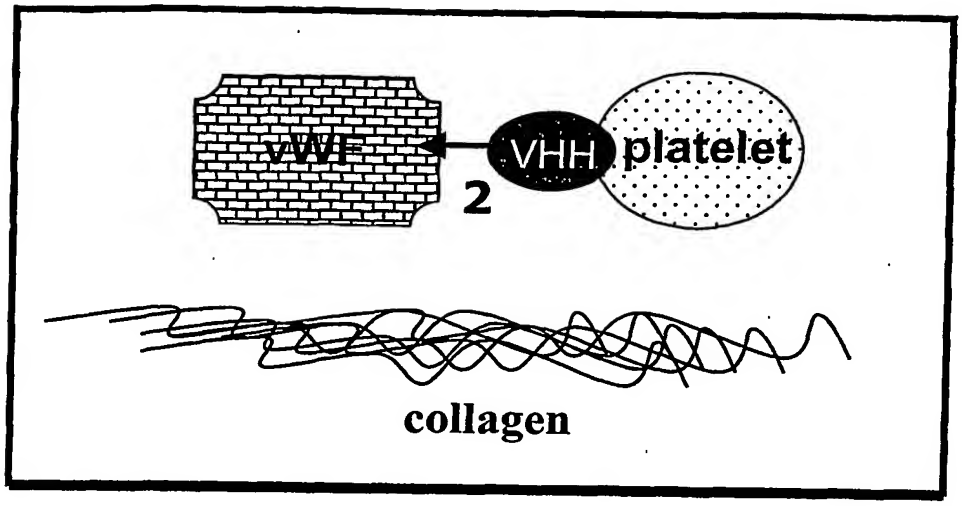


Figure 24

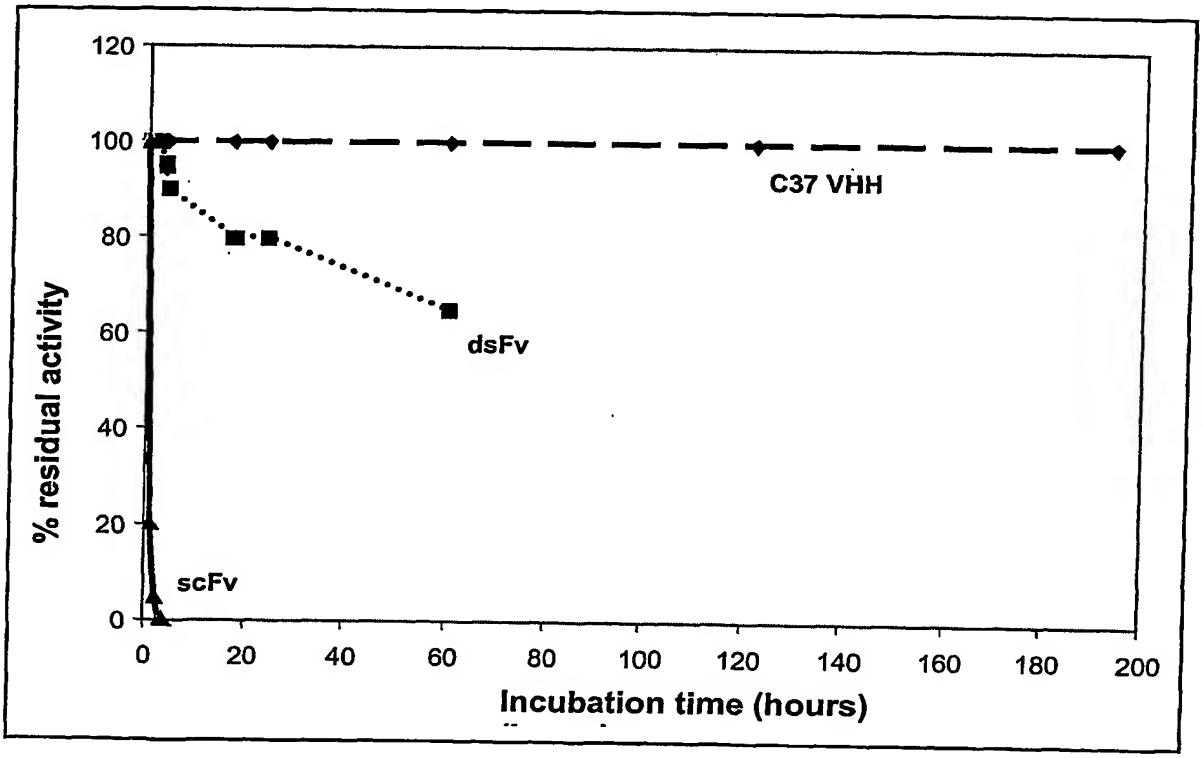


Figure 25

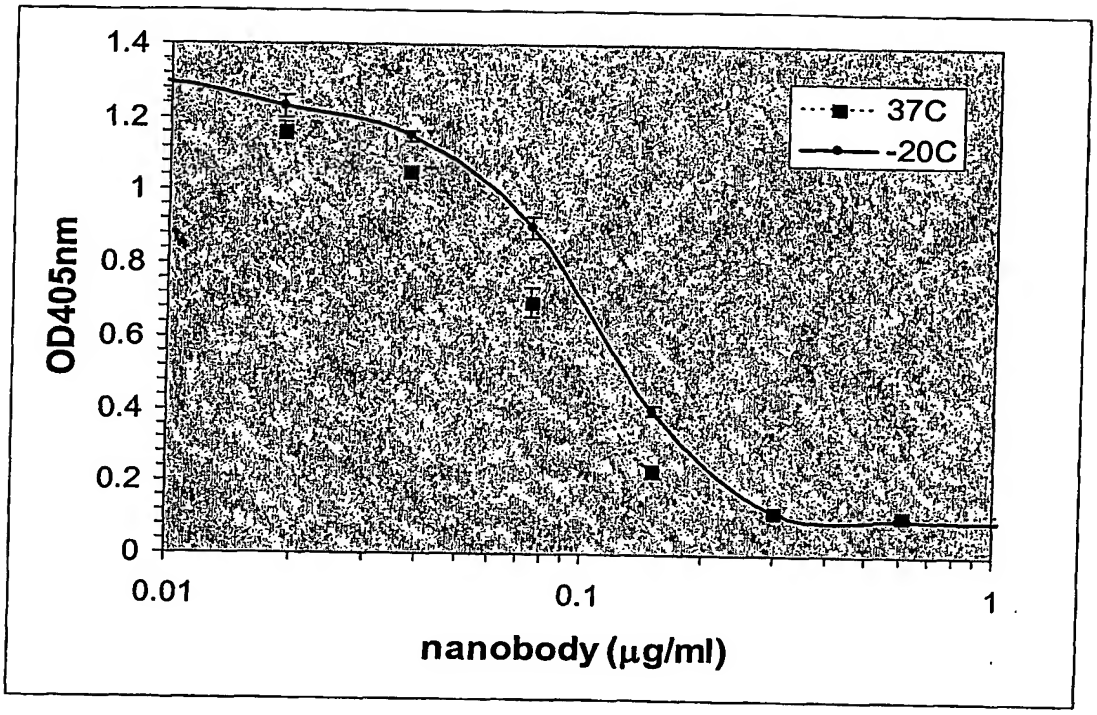


Figure 26

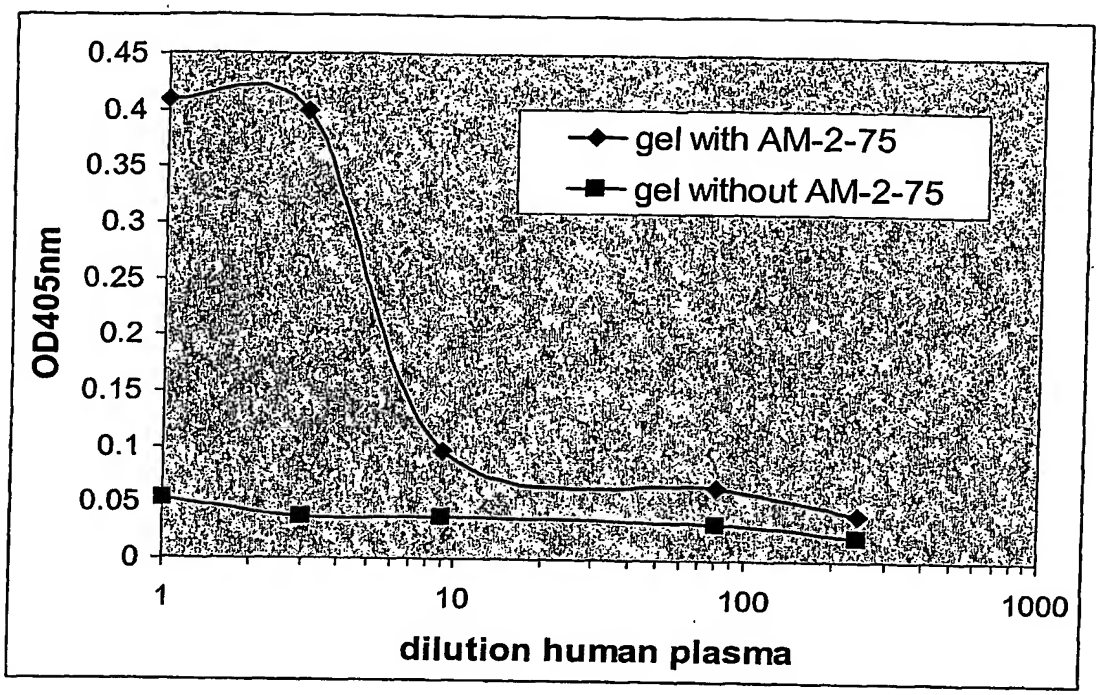


Figure 27

DP-47 EVQLLESGGGLVQPGGSLRLSCAASGFTFS SYAMS WVRQAPGKGLEWVS AISGSGGSTYY
C-37 QVQLQESGGGLVQPGGSLRLSCAASGFNFN WYPMS WVRQAPGKGLEWVS TISTYGEPRY-

DP-47 ADSVKG RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAK ---------- ----------
-

C-37 ADSVKG RFTISRDNANNTLYLQMNSLRPEDTAVYYCAR GAGTSSYLPQRGN
WDQGTQVTISS

Figure 28

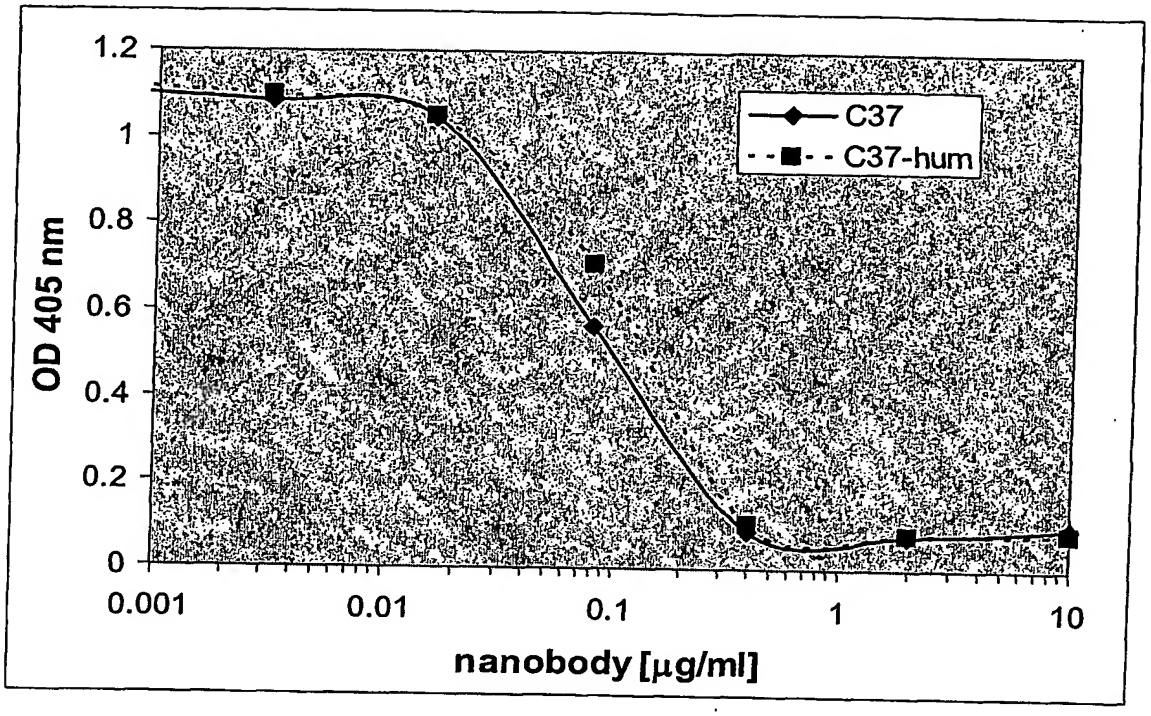

1.2
1
0.8
0.6
0.4
0.2
0
OD 405 nm
C37
C37-hum
0.001
0.01
0.1
1
10
nanobody [µg/ml]

Figure 29

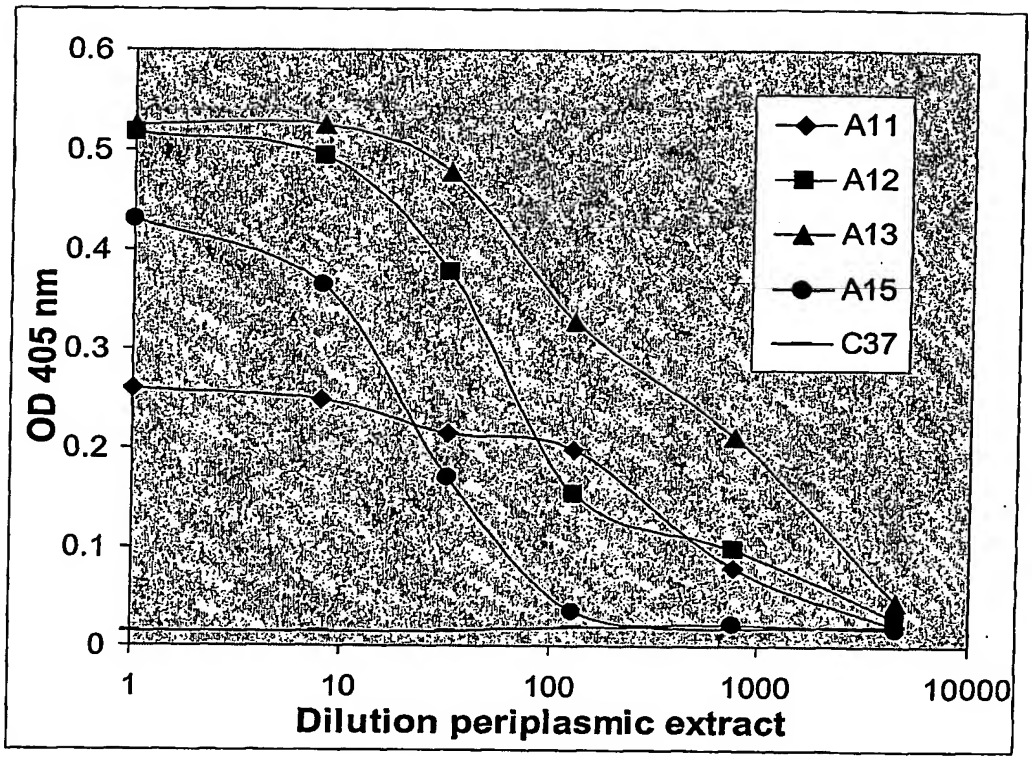
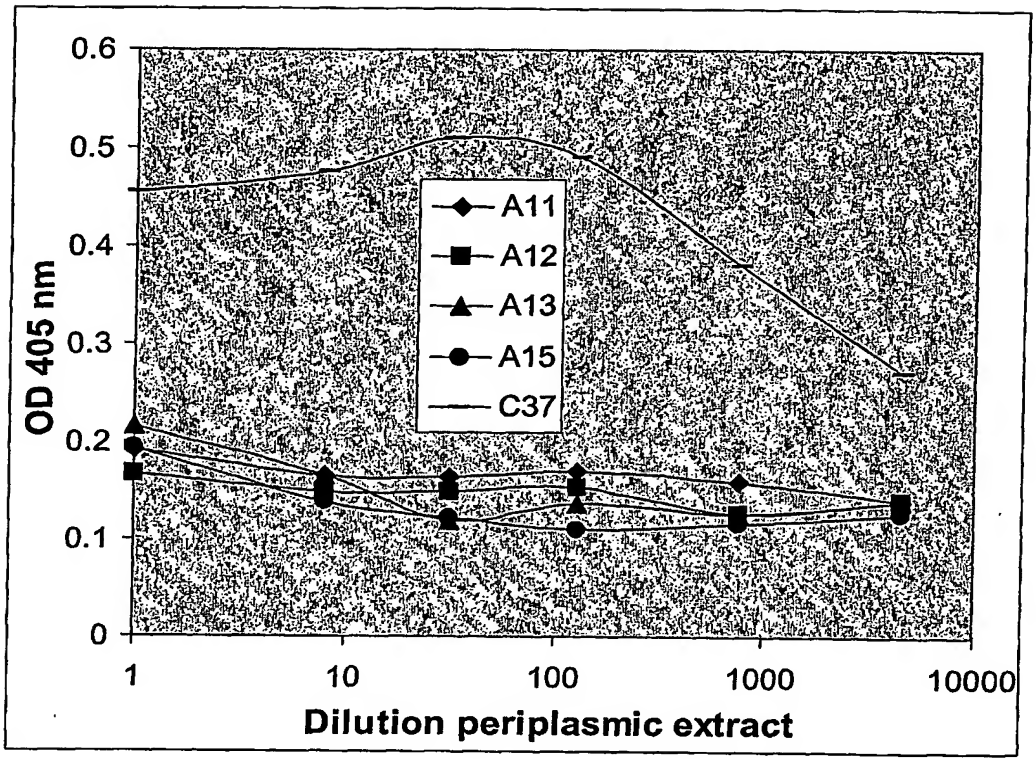

0.6
0.5
0.4
0.3
0.2
0.1
0
OD 405 nm
1
10
100
1000
10000
Dilution periplasmic extract
A11
A12
A13
A15
C37

Figure 30


0.6
0.5
0.4
0.3
0.2
0.1
0
OD 405 nm
A11
A12
A13
A15
C37
1
10
100
1000
10000
Dilution periplasmic extract